

### CLAIMS

1. A composition comprising an insulin sensitizer and a peptide fraction.
- 5 2. A composition according to claim 1, wherein the peptide fraction is part of a hydrolysate.
3. A composition according to claim 1 or 2, wherein the peptide fraction comprises an amount of at least one free amino acid which is any of leucine, phenylalanine and arginine.
- 10 4. A composition according to any one of claims 1 to 3 wherein the peptides of the peptide fraction are protein molecules having a molecular weight of less than 2000Da.
5. A composition according to any one of the claims 1 to 4 wherein the peptide fraction is rich in peptides having a molecular weight below 500Da preferably rich in di and/or tripeptides.
- 15 6. A composition according to claim 5 wherein at least 20 molar%, at least 25 molar% or at least 30 molar% or at least 35 molar% of the peptides with a molecular weight below 2000Da, is present as di and/or tripeptide.
7. A composition according to claim 5 or 6, wherein the di- and/or tripeptides are rich in proline at one end of the peptide.
- 20 8. A composition according to any one of claim 5 to 7, wherein at least 20%, at least 30% or at least 40% of the proline present in the starting protein is present in the di and/or tripeptides.
9. A composition according to any one of claims 5 to 8, wherein 30% of the tripeptides or 35% of the tripeptides have a carboxy terminal proline.
- 25 10. A composition according to any one of claims 5 to 9, wherein at least 30 molar% of the peptides or at least 50 molar% or at least 70 molar% of all peptides present with a molecular weight below 2000 Da.
11. A composition according to any one of claims 1 to 10, wherein the insulin sensitizer is chromium, vanadium, niacin, corosilic acid, banana leafextract, ginseng

berry, Ginsenoside Re, cinnamon, methylhydroxy chalcone polymer, pterostilbene, biguanide or thiazolidinedione.

12. A dietetic product, a pharmaceutical product, or a food or a food supplement comprising the composition according to any one of claims 1 to 11.

5 13. A composition according to any one of claims 1 to 11 for use in a method of treatment of the human or animal body by therapy or diagnosis.

14. Use of a composition according to any one of claims 1 to 11 for the manufacture of a medicament for treating type 2 diabetes or preventing diabetes.

15. Use of a composition comprising a peptide fraction for the manufacture of a  
10 medicament for treating type 2 diabetes or preventing diabetes.

16. Use according to claim 15, wherein the peptide fraction comprises at least one free amino acid which is one of tyrosine, leucine, phenylamine and arginine.

17. Method of treatment of type 2 diabetes which comprises the use of a composition according to any one of claims 1 to 11.

15 18. Method of preventing diabetes which comprises the use of a composition according to any one of claims 1 to 11 .